



U.S. Department of Justice
Drug Enforcement Administration

Western Laboratory
Pleasanton, CA

Chemical Analysis Report

Salt Lake City District Office
348 East South Temple Street
Salt Lake City, UT 84111

Case Number: ML-16-0095
LIMS Number: 2016-SFL7-04916

Observations, Results and Conclusions:

Exhibit	Substance(s) Identified	Net Weight	Substance Purity	Amount Pure Substance
166	Fentanyl Hydrochloride	102.9 g \pm 0.2 g	87% \pm 4%	89.5 g \pm 3.7 g

Remarks:
Exhibit 166: Purity determined from testing the composite; the purity and amount pure substance uncertainty values represent expanded uncertainty estimates at the 95% level of confidence.

Exhibit 166: The net weight was determined by direct weighing of all unit(s); the net weight uncertainty value represents an expanded uncertainty estimate at the 95% level of confidence.

Exhibit Details:

Date Accepted by Laboratory: 12/05/2016

Gross Weight: 207.6 g

Exhibit	No. Units	Pkg. (Inner)	Form	Reserve Wt.
166	1	Ziplock Plastic Bag	Powder	77.3 g

Remarks:
Exhibit 166: 25.0 grams removed for Special Program.

Exhibit Analysis:

Sampling:

Exhibit 166: A composite was formed from 1 unit for testing. Fentanyl confirmed in the composite. Salt form determined from testing the composite.

Exhibit	Summary of Test(s)
166	Gas Chromatography/Mass Spectrometry, Infrared Spectroscopy

Exhibit	Purity Test(s)
166	DEA107L/GasChromatography

Analyzed By: /S/ Emily A. Oblath, Forensic Chemist
Approved By: /S/ William R. Dietz, Supervisory Chemist

Date: 04/27/2017
Date: 04/28/2017



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348 East South Temple Street
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Case Number: ML-16-0095
LIMS Number: 2016-SFL7-04004

Observations, Results and Conclusions:

Exhibit	Substance(s) Identified	Net Weight	Substance Purity	Amount Pure Substance
1	Fentanyl Hydrochloride	98.7 g \pm 0.2 g	---	---

Remarks:

The reported net weight was determined by direct weighing of all unit(s); the net weight uncertainty value represents an expanded uncertainty estimate at the 95% level of confidence.

Exhibit Details:

Date Accepted by Laboratory: 10/03/2016

Gross Weight: 207.4 g

Exhibit	No. Units	Pkg. (Inner)	Form	Reserve Wt.
1	1	Plastic Bag	Powder	92.9 g

Remarks:

5.0 grams removed for Special Program.

Exhibit Analysis:

Sampling:

Fentanyl hydrochloride confirmed in 1 unit tested of 1 unit received. A composite was formed from 1 unit for further testing.

Exhibit	Summary of Test(s)
1	Gas Chromatography/Mass Spectrometry, Infrared Spectroscopy

Analyzed By: /S/ Emily A. Oblath, Forensic Chemist
Approved By: /S/ William R. Dietz, Supervisory Chemist

Date: 11/16/2016
Date: 11/16/2016



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Case Number: ML-16-0095
LIMS Number: 2016-SFL7-04539

Observations, Results and Conclusions:

Exhibit	Substance(s) Identified	Net Weight	Substance Purity	Amount Pure Substance
2	Alprazolam	122.1 g \pm 0.2 g	----	----

Remarks:

Exhibit 2: The net weight was determined by direct weighing of all unit(s); the net weight uncertainty value represents an expanded uncertainty estimate at the 95% level of confidence.

Exhibit Details:

Date Accepted by Laboratory: 11/16/2016

Gross Weight: 248.1 g

Exhibit	No. Units	Pkg. (Inner)	Form	Reserve Wt.
2	1	Ziplock Plastic Bag	Powder	121.5 g

Remarks:

Exhibit Analysis:

Sampling:

Exhibit 2: A composite was formed from 1 unit for testing. Alprazolam confirmed in the composite.

Exhibit	Summary of Test(s)
2	Gas Chromatography/Mass Spectrometry, Infrared Spectroscopy

Analyzed By: /S/ Emily A. Oblath, Forensic Chemist
Approved By: /S/ William R. Dietz, Supervisory Chemist

Date: 04/10/2017
Date: 04/17/2017



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Case Number: ML-16-0095
LIMS Number: 2016-SFL7-04568

Observations, Results and Conclusions:

Exhibit	Substance(s) Identified	Net Weight	Substance Purity	Amount Pure Substance
3	Fentanyl (calc. as Hydrochloride)	74.3 g \pm 0.2 g	80% \pm 4%	59.4 g \pm 2.6 g

Remarks:

Exhibit 3: Purity determined from testing the composite; the purity and amount pure substance uncertainty values represent expanded uncertainty estimates at the 95% level of confidence.

Exhibit 3: The net weight was determined by direct weighing of all unit(s); the net weight uncertainty value represents an expanded uncertainty estimate at the 95% level of confidence.

Exhibit Details:

Date Accepted by Laboratory: 11/17/2016

Gross Weight: 202.2 g

Exhibit	No. Units	Pkg. (Inner)	Form	Reserve Wt.
3	1	Ziplock Plastic Bag	Powder	70.8 g

Remarks:

Exhibit 3: 3.0 grams removed for Special Program.

Exhibit Analysis:

Sampling:

Exhibit 3: A composite was formed from 1 unit for testing. Fentanyl confirmed in the composite.

Exhibit	Summary of Test(s)
3	Gas Chromatography, Gas Chromatography/Mass Spectrometry, Infrared Spectroscopy

Exhibit	Purity Test(s)
3	DEA107L/GasChromatography

Analyzed By: /S/ Emily A. Oblath, Forensic Chemist
Approved By: /S/ William R. Dietz, Supervisory Chemist

Date: 04/10/2017
Date: 04/17/2017



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Case Number: ML-16-0095
LIMS Number: 2016-SFL7-04629

Observations, Results and Conclusions:

Exhibit	Substance(s) Identified	Net Weight	Substance Purity	Amount Pure Substance
12	Fentanyl Hydrochloride	99.4 g \pm 0.2 g	88% \pm 4%	87.4 g \pm 3.6 g

Remarks:
Exhibit 12: Purity determined from testing the composite; the purity and amount pure substance uncertainty values represent expanded uncertainty estimates at the 95% level of confidence.

Exhibit 12: The net weight was determined by direct weighing of all unit(s); the net weight uncertainty value represents an expanded uncertainty estimate at the 95% level of confidence.

Exhibit Details:

Date Accepted by Laboratory: 11/22/2016

Gross Weight: 203.5 g

Exhibit	No. Units	Pkg. (Inner)	Form	Reserve Wt.
12	1	Ziplock Plastic Bag	Powder	96.0 g

Remarks:
Exhibit 12: 3.0 grams removed for Special Program.

Exhibit Analysis:

Sampling:

Exhibit 12: A composite was formed from 1 unit for testing. Fentanyl confirmed in the composite. Salt form determined from testing the composite.

Exhibit	Summary of Test(s)
12	Gas Chromatography, Gas Chromatography/Mass Spectrometry, Infrared Spectroscopy

Exhibit	Purity Test(s)
12	DEA107L/GasChromatography

Analyzed By: /S/ Emily A. Oblath, Forensic Chemist
Approved By: /S/ William R. Dietz, Supervisory Chemist

Date: 04/10/2017
Date: 04/18/2017



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Salt Lake City District Office
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Case Number: ML-16-0095
LIMS Number: 2016-SFL7-04764

Observations, Results and Conclusions:

Exhibit	Substance(s) Identified	Net Weight	Substance Purity	Amount Pure Substance
14	Fentanyl	2138 g \pm 1 g	----	----

Remarks:

The reported net weight was determined by direct weighing of all unit(s); the net weight uncertainty value represents an expanded uncertainty estimate at the 95% level of confidence.

Exhibit 14: Total unit count = 19783 tablets (net); 19732 tablets (reserve).

Exhibit Details:

Date Accepted by Laboratory: 12/05/2016

Gross Weight: 2229 g

Exhibit	No. Units	Pkg. (Inner)	Form	Reserve Wt.
14	19783	Ziplock Plastic Bag	Tablet	2132 g

Remarks:

1331.6 grams held for destruction pending written notification.

0.5 grams removed for Special Program.

2.6 grams removed for Special Program.

Exhibit Analysis:

Sampling:

Fentanyl confirmed in 32 units tested of 19783 units received representing a 95% level of confidence that at least 90% of the population contains the substance. A composite was formed from 32 units for further testing.

Exhibit	Summary of Test(s)
14	Gas Chromatography, Gas Chromatography/Mass Spectrometry, Marquis Color Test

Analyzed By: /S/ Emily A. Oblath, Forensic Chemist
Approved By: /S/ William M. Moriwaki, Supervisory Chemist

Date: 01/31/2017
Date: 01/31/2017



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Case Number: ML-16-0095
LIMS Number: 2016-SFL7-04784

Observations, Results and Conclusions:

Exhibit	Substance(s) Identified	Net Weight	Substance Purity	Amount Pure Substance
34	Fentanyl	225.2 g \pm 0.2 g	----	----

Remarks:

The reported net weight was determined by direct weighing of all unit(s); the net weight uncertainty value represents an expanded uncertainty estimate at the 95% level of confidence.

Exhibit 34: Total unit count = 2109 tablets (net); 2061 tablets (reserve).

Exhibit Details:

Date Accepted by Laboratory: 12/05/2016

Gross Weight: 281.2 g

Exhibit	No. Units	Pkg. (Inner)	Form	Reserve Wt.
34	2109	Ziplock Plastic Bag	Tablet	220.1 g

Remarks:

0.5 grams removed for Special Program.

2.6 grams removed for Special Program.

Exhibit Analysis:

Sampling:

Fentanyl confirmed in 29 units tested of 2109 units received representing a 95% level of confidence that at least 90% of the population contains the substances. A composite was formed from 29 units for further testing.

Exhibit	Summary of Test(s)
34	Gas Chromatography, Gas Chromatography/Mass Spectrometry, Marquis Color Test

Analyzed By: /S/ Emily A. Oblath, Forensic Chemist

Date: 01/30/2017

Approved By: /S/ Roger A. Ely, Supervisory Chemist

Date: 01/31/2017

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Case Number: ML-16-0095
LIMS Number: 2016-SFL7-04814

Observations, Results and Conclusions:

Exhibit	Substance(s) Identified	Net Weight	Substance Purity	Amount Pure Substance
64	Fentanyl	54.607 g \pm 0.001 g	----	----

Remarks:

The reported net weight was determined by direct weighing of all unit(s); the net weight uncertainty value represents an expanded uncertainty estimate at the 95% level of confidence.

Exhibit 64: Total unit count = 514 tablets (net); 466 tablets (reserve).

Exhibit Details:

Date Accepted by Laboratory: 12/05/2016

Gross Weight: 103.1 g

Exhibit	No. Units	Pkg. (Inner)	Form	Reserve Wt.
64	514	Ziplock Plastic Bag	Tablet	49.542 g

Remarks:

0.5 grams removed for Special Program.

2.6 grams removed for Special Program.

Exhibit Analysis:

Sampling:

Fentanyl confirmed in 28 units tested of 514 units received representing a 95% level of confidence that at least 90% of the population contains the substances. A composite was formed from 28 units for further testing.

Exhibit	Summary of Test(s)
64	Gas Chromatography, Gas Chromatography/Mass Spectrometry, Marquis Color Test

Analyzed By: /S/ Emily A. Oblath, Forensic Chemist

Date: 01/30/2017

Approved By: /S/ Roger A. Ely, Supervisory Chemist

Date: 01/31/2017

001-007-011-00001



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Case Number: ML-16-0095
LIMS Number: 2016-SFL7-04873

Observations, Results and Conclusions:

Exhibit	Substance(s) Identified	Net Weight	Substance Purity	Amount Pure Substance
123	Fentanyl	22.786 g \pm 0.001 g	----	----

Remarks:

The reported net weight was determined by direct weighing of all unit(s); the net weight uncertainty value represents an expanded uncertainty estimate at the 95% level of confidence.

Exhibit 123: Total unit count = 214 tablets (net); 168 tablets (reserve).

Exhibit Details:

Date Accepted by Laboratory: 12/05/2016

Gross Weight: 64.2 g

Exhibit	No. Units	Pkg. (Inner)	Form	Reserve Wt.
123	214	Ziplock Plastic Bag	Tablet	17.887 g

Remarks:

0.5 grams removed for Special Program.

2.5 grams removed for Special Program.

Exhibit Analysis:

Sampling:

Fentanyl confirmed in 27 units tested of 214 units received representing a 95% level of confidence that at least 90% of the population contains the substances. A composite was formed from 27 units for further testing.

Exhibit	Summary of Test(s)
123	Gas Chromatography, Gas Chromatography/Mass Spectrometry, Marquis Color Test

Analyzed By: /S/ Emily A. Oblath, Forensic Chemist

Date: 01/30/2017

Approved By: /S/ Roger A. Ely, Supervisory Chemist

Date: 01/31/2017



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Case Number: ML-16-0095
LIMS Number: 2016-SFL7-04925

Observations, Results and Conclusions:

Exhibit	Substance(s) Identified	Net Weight	Substance Purity	Amount Pure Substance
175	Fentanyl (calc. as Hydrochloride)	87.1 g \pm 0.2 g	72% \pm 3%	62.7 g \pm 3.0 g

Remarks:
Exhibit 175: Purity determined from testing the composite; the purity and amount pure substance uncertainty values represent expanded uncertainty estimates at the 95% level of confidence.

Exhibit 175: The net weight was determined by direct weighing of all unit(s); the net weight uncertainty value represents an expanded uncertainty estimate at the 95% level of confidence.

Exhibit Details:

Date Accepted by Laboratory: 12/05/2016

Gross Weight: 215.9 g

Exhibit	No. Units	Pkg. (Inner)	Form	Reserve Wt.
175	1	Ziplock Plastic Bag	Powder	81.4 g

Remarks:
Exhibit 175: 5.0 grams removed for Special Program.

Exhibit Analysis:

Sampling:

Exhibit 175: A composite was formed from 1 unit for testing. Fentanyl confirmed in the composite.

Exhibit	Summary of Test(s)
175	Gas Chromatography, Gas Chromatography/Mass Spectrometry, Infrared Spectroscopy

Exhibit	Purity Test(s)
175	DEA107L/GasChromatography

Analyzed By: /S/ Emily A. Oblath, Forensic Chemist
Approved By: /S/ William R. Dietz, Supervisory Chemist

Date: 05/03/2017
Date: 05/03/2017



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Case Number: ML-16-0095
LIMS Number: 2016-SFL7-04933

Observations, Results and Conclusions:

Exhibit	Substance(s) Identified	Net Weight	Substance Purity	Amount Pure Substance
183	Alprazolam	150.9 g \pm 0.2 g	----	----

Remarks:

Exhibit 183: The net weight was determined by direct weighing of all unit(s); the net weight uncertainty value represents an expanded uncertainty estimate at the 95% level of confidence.

Exhibit Details:

Date Accepted by Laboratory: 12/05/2016

Gross Weight: 253.6 g

Exhibit	No. Units	Pkg. (Inner)	Form	Reserve Wt.
183	1	Ziplock Plastic Bag	Powder	150.6 g

Remarks:

Exhibit Analysis:

Sampling:

Exhibit 183: A composite was formed from 1 unit for testing. Alprazolam confirmed in the composite.

Exhibit	Summary of Test(s)
183	Gas Chromatography, Gas Chromatography/Mass Spectrometry, Infrared Spectroscopy

Analyzed By: /S/ Emily A. Oblath, Forensic Chemist
Approved By: /S/ William R. Dietz, Supervisory Chemist

Date: 05/03/2017
Date: 05/04/2017



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Case Number: ML-16-0095
LIMS Number: 2016-SFL7-04943

Observations, Results and Conclusions:

Exhibit	Substance(s) Identified	Net Weight	Substance Purity	Amount Pure Substance
193	Fentanyl	239.2 g \pm 0.2 g	----	----

Remarks:

The reported net weight was determined by direct weighing of all unit(s); the net weight uncertainty value represents an expanded uncertainty estimate at the 95% level of confidence.

Exhibit 193: Total unit count = 2277 tablets (net); 2229 tablets (reserve).

Exhibit Details:

Date Accepted by Laboratory: 12/05/2016

Gross Weight: 282.3 g

Exhibit	No. Units	Pkg. (Inner)	Form	Reserve Wt.
193	2277	Ziplock Plastic Bag	Tablet	234.2 g

Remarks:

0.5 grams removed for Special Program.

2.5 grams removed for Special Program.

Exhibit Analysis:

Sampling:

Fentanyl confirmed in 29 units tested of 2277 units received representing a 95% level of confidence that at least 90% of the population contains the substance. A composite was formed from 29 units for further testing.

Exhibit	Summary of Test(s)
193	Gas Chromatography, Gas Chromatography/Mass Spectrometry, Marquis Color Test

Analyzed By: /S/ Emily A. Oblath, Forensic Chemist

Date: 01/30/2017

Approved By: /S/ Roger A. Ely, Supervisory Chemist

Date: 01/31/2017

001-007-023-00001